

10187

FUE60

C:

ENCLOSURE FIRE DYNAMICS

BJÖRN KARLSSON
JAMES G. QUINTIERE

Table of Contents

Chapter 1

Introduction.....	1
-------------------	---

Chapter 2

A Qualitative Description of Enclosure Fires.....	11
---	----

Chapter 3

Energy Release Rates	25
----------------------------	----

Chapter 4

Fire Plumes and Flame Heights	47
-------------------------------------	----

Chapter 5

Pressure Profiles and Vent Flows for Well-Ventilated Enclosures	81
---	----

Chapter 6

Gas Temperatures in Ventilated Enclosure Fires	115
--	-----

Chapter 7

Heat Transfer in Compartment Fires.....	141
---	-----

Chapter 8

Conservation Equations and Smoke Filling.....	181
---	-----

Chapter 9

Combustion Products.....	227
--------------------------	-----

Chapter 10

Computer Modeling of Enclosure Fires.....	255
---	-----

Appendix A

Fire Safety Engineering Resources on the Internet	279
---	-----

Appendix B

Suggestions for Experiments and Computer Labs	289
---	-----

Appendix C

A Simple User's Guide to CEdit.....	299
-------------------------------------	-----

Index.....	307
------------	-----